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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,483	09/08/2003	Brian E. Curcio	END920000122US3 (IEN-10-5)	7494
26681 7590 01/04/2007 DRIGGS, HOGG & FRY CO. L.P.A. 38500 CHARDON ROAD DEPT. IEN WILLOUGHBY HILLS, OH 44094			EXAMINER OLSEN, ALLAN W	
			ART UNIT 1763	PAPER NUMBER
			MAIL DATE 01/04/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Advisory Action</b> <b>Before the Filing of an Appeal Brief</b>	Application No. 10/657,483	Applicant(s) CURCIO ET AL.	
	Examiner Allan Olsen	Art Unit 1763	

**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 07 December 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires \_\_\_\_\_ months from the mailing date of the final rejection.  
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### NOTICE OF APPEAL

2. ☒ The Notice of Appeal was filed on 07 December 2006. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

#### AMENDMENTS

3. ☒ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because  
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);  
(b) ☐ They raise the issue of new matter (see NOTE below);  
(c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or  
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)).

4. ☒ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).  
5. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
6. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).  
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☒ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.  
The status of the claim(s) is (or will be) as follows:  
Claim(s) allowed: \_\_\_\_\_.  
Claim(s) objected to: \_\_\_\_\_.  
Claim(s) rejected: 1-12, 15, 16 and 18-20.  
Claim(s) withdrawn from consideration: 13, 14 and 17.

#### AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).  
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).  
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

#### REQUEST FOR RECONSIDERATION/OTHER

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:  
See Continuation Sheet.  
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). \_\_\_\_\_.  
13. ☒ Other: PTO 892 attached.

*Allan Olsen*

Continuation of 11. does NOT place the application in condition for allowance because:

With respect to claim 20, the proposed amendment would correct the 112 issue raised in the previous Office action. However, the amendment is not entered because the application is not considered to have been placed in condition for allowance and because the proposed amendment is Non-compliant for reasons detailed on the Notice of Non-Compliance.

Regarding claim 19, applicant argues that because layers 6 and 7 of Asai overlie plug 5, Asai cannot teach or suggest joining different substrates by face-to-face bonding of two nubs. The examiner notes layers 6 and 7 of Asai are conductive layers. As such, when Asia removes the conductive coating from a face of the dielectric substrate Asia meets the claimed step of "removing at least a portion of the surface of the conductive coating on at least one face of the first dielectric substrate to form a first nub of conductive material." The nubs that are joined face-to-face in claim 19 are not limited such that the nubs must consist of only the conductive material that was dispensed in each of the openings. Claim 19 recites "...to form a nub of conductive material" which reads on the teaching of Asai.

Regarding claim 1, the examiner notes the claim refers to a joining a core face-to-face with another structure. The core comprises a dielectric layer with opposing faces from which a nub of conductive material protrudes. The principal issue at hand is the limitation that requires the core and the other structure to be electrically joined face-to-face through the conductive material. The examiner maintains that when the structure described by Asai (having additional conductive material overlying the conductive material that was dispensed in the openings) is electrically joined to another structure the electrical connection goes through the conductive nub material that was dispensed in the opening, for example, consider an electrical signal originating on the face of the core opposite to the joined face, such a signal would go through the nub material. It is also worth noting that the face of the core is joined face-to-face to another structure but the "face" of the other structure is not defined.

Lastly, a PTO-892 is attached to make of record additional relevant references.